Stewardship reporting provides information on resources entrusted to NOAA and the related responsibilities assumed by NOAA. These resources include stewardship property, plant, and equipment (PP&E) and stewardship investments. NOAA does not manage a significant amount of stewardship assets; however, its stewardship assets do provide a significant benefit to the Nation. NOAA's stewardship resources range from marine sanctuaries to historic laboratory buildings. These resources do not meet the criteria for assets which are required to be in the consolidated financial statements, but they are important for understanding the operations and financial condition of NOAA and the Federal government.

# Stewardship Property, Plant, and Equipment

#### **Heritage Assets**

Heritage assets are PP&E that are unique because of their historical or natural significance; cultural, educational or artistic importance; or significant architectural characteristics. Heritage assets are expected to be preserved indefinitely. Although these assets would not be disclosed under traditional financial reporting requirements, the disclosure of heritage assets is essential to assess the overall performance of NOAA and the Federal government.

NOAA's heritage assets are comprised primarily of books, publications, manuscripts, records and nautical chart plates. These heritage assets are collection-type assets. NOAA's asset condition assessment is based on a five-point scale as follows: Condition 1 - Excellent; Condition 2 - Good; Condition 3 - Fair; Condition 4 - Poor; Condition 5 - Very Poor. Assets with the condition assessment level of between 1 through 3 are defined as being suitable for public display. The books, publications and manuscripts which make up two-thirds of the assets are in Condition 4 - Poor and Condition 5 - Very Poor. NOAA has established condition 2 - Good as the acceptable operating condition code for heritage assets. FY2005 additions to heritage assets are items found during FY2005 which were not previously reported.

Heritage Assets									
Reporting Entity	Description of Assets	09/30/04 Quantity of Items Held	FY 2005 Additions	FY 2005 Withdrawals	FY2005 Quantity of Items Transferred	06/30/05 Quantity of Items Held			
National Environmental	Publications,								
Satellite, Data and Information	books,								
Service (NESDIS)	manuscripts,	_			(2)	_			
Manuscript Map Collection	photographs	9			(2)	7			
Black & White Photograph	and maps	40.000				40.000			
Collection	-	40,000				40,000			
Bruce Heezen Collection	-	2,500				2,500			
Coast Survey Collection	-	35,000				35,000			
Rare Book Collection	-	2,975				2,975			
Weather Bureau Collection NESDIS Library	Litho Plates	70,000				70,000			
	Artifacts	2				2 2			
NESDIS WASC Fairbanks, AK			33						
NESDIS EASC NCDC NESDIS OSD JPL	Artifacts	33	33			66			
	Artifact Artifacts	1			0	8			
NOAA Central Library	Artifacts	150 522	22		8				
NESDIS Total		150,522	33		6	150,561			
National Ocean Service (NOS)		1	•	•		•			
NOS CASC	Artifacts,								
Beaufort Laboratory–Rice Library	rare	18				18			
	historical								
Leather Bound Rare Book	books, home	4				4			
Collection	movies, manuscript	4				4			
Rare Book Collection	maps and	83	2			83			
Manuscript Map Collection	Furniture	0	2			2			
Historical Serial Collection	- Turmtare	93				93			
Wooden Card Catalog Table									
w/50 Drawers(includes cards)		1				1			
NOS CASC N/ORRM62	Books		23			23			
NOS CASC Total		199	25			224			
NOS EASC	Artifacts								
Atlantic Hydrographic Branch									
(AHB)		23	1			24			
NOS EASC	Surveying								
Coast Survey 11 Warehouse	artifacts								
Corbin, VA		71	245			316			
NOCE ACC	D	1		<u> </u>					
NOS EASC	Recovered								
Florida Keys National Marine	artifacts from the								
Sanctuary (FKNMS) Submerged Cultural	FKNMS								
Resources (SCR) Collection	LIZIMINI	174	3			177			
resources (SCR) concention		1/7	<u> </u>	<u> </u>		1//			

Heritage Assets								
Reporting Entity	Description of Assets	09/30/04 Quantity of Itms Held	FY 2005 Additions	FY 2005 Withdrawals	FY 2005 Quantity of Items Transferred	06/30/05 Quantity of Items Held		
NOS EASC	Artifacts							
USS Monitor National Marine	from USS	1.026				1.026		
Sanctuary	Monitor	1,036	2.40			1,036		
NOS EASC Total		1,304	249			1,553		
NOS WASC Pacific Hydrographic Branch(PHB)	Artifacts	11				11		
NOCH - January III (	Portrait							
<b>NOS Headquarters -</b> History of Ocean Service, established	Fortialt							
By Thomas Jefferson		0			1	1		
By Thomas Jefferson					1	1		
NOS Hydrographic Survey Division(HSD)	Navigational & surveying	17				17		
	artifacts, art objects,							
NOS National Geodetic	models,							
Survey(NGS)	Oceanic	125			(25)	100		
	artifacts,							
NOS Oceanographic Products	Copperplates,	10				10		
Services(OPS)	documents	18	240		1	19		
NOS OCCUPACIONAL CONTRACTOR CONTR	Artifacts	515	249		12	249		
NOS Office of Coast Survey(CS)	Artifacts	515	25		12	552		
NOS Total		2,189	548		(11)	2726		
1105 Total		2,107	340		(11)	2720		
National Weather Service (NWS)								
NWS Headquarters	Historic	4	83			87		
NWS Alaska Region	films, books,	1	63			1		
NWS WR WFO Billings, MT	records and	3				3		
NWS WR WFO Boise, ID	artifacts	1				1		
NWS WR WFO Elko, NV		1				1		
NWS WR WFO Eureka, CA		3				3		
NWS WR WFO Las Vegas, NV		3				3		
NWS WR WFO Medford, OR		3				3		
NWS WR WFO Oxnard, CA		5				5		
NWS WR WFO Portland, OR		8				8		
NWS WR WFO Sacramento, CA		1				1		
NWS WR WFO San Diego, CA		1				1		
NWS WR WFO Pendleton, OR		1				1		
NWS WR WFO Flagstaff, AZ		2				2		
Weather Forecast Office (WFO)		25				20		
Museum, Charleston, WV		37	2	4		38		
NWS Historical Film Collection Automated Forecast Office		11		1		10		
System – AFOS Collection		18				18		
System In Ob Contention	ļ	10				10		

Heritage Assets								
Reporting Entity NWS W/OPS4	Description of Assets	09/30/04 Quantity of Items Held	FY 2005 Additions	FY 2005 Withdrawals	FY 2005 Quantity of Items Transferred	06/30/05 Quantity of Items Held		
						_		
NWS Total		103	86	1	0	188		
NOAA Marine and Aviation Operations (NMAO) NMAO Headquarters	Art objects, ship models, instruments	34			5	39		
NOAA Fleet Collection	and artifacts	18	3		3	21		
NMAO Total		52	3		5	60		
NOAA Finance and Administration (NFA)	Artifacts and instruments	9				9		
Under Secretary (USEC)	Lithographic nautical chart plates	13		1		12		
National Marine Fisheries Service (NMFS)	Historical pre-NOAA							
NMFS Headquarters Bob Hines Collection	artwork and artifacts and	24				24		
NMFS WASC Fisheries Enforcement 5, NW Seattle, WA COPS Collection	art works	284				284		
SWC5	Artwork		1			1		
NMFS Total		308	1			309		
NOAA TOTAL		153,196	671	2		153,865		

#### Multi-Use Heritage Assets

In some cases, heritage assets may be used to serve two purposes – in a heritage function and for use in government operations. In cases where a heritage asset serves both these purposes and has a predominant use in general government operations, the asset is considered a multi-use heritage asset. Multi-use heritage assets are capitalized as general PP&E and are depreciated over the useful life of the asset.

**Galveston Laboratory:** NOAA's Galveston Laboratory is comprised of seven buildings which were originally part of Fort Crockett, an Army coastal defense facility built shortly after 1900. These buildings are listed by the Texas State Historical Society and are eligible for placement on

the National Register. Due to their historic significance, exterior architectural features, and predominant use in government operations, this facility is undergoing a renovation in three phases. Phase I and II are complete, and Phase III-A has been funded at \$1.95 million for FY 2004. A bid solicitation for Phase III-A renovation of Building 306 was issued and a contract has been approved. Phase III-B has been funded at \$1.97 million for FY 2005 and the final part of Phase III, Phase III-C, is planned to be funded at \$2.0 million for FY 2006. Construction commenced in October 2004. As of June 30, 2005 approximately 60 percent of the Facility renovation work is complete.

NMFS Aquarium: The National Marine Fisheries Service (NMFS) Aquarium, which is located in Woods Hole, Massachusetts, is used to improve public understanding and awareness of the benefits of marine science and NMFS activities, and to support research for the Northeast Fisheries Science Center. The laboratory's aquarium has been open to the public since 1885, and houses about 140 species of fish and invertebrates common along the Northeastern U.S. continental shelf. The exhibition tanks range in size from 75 to 2,800 gallons and are fed with a flow through seawater system comprising three temperature zones. The aquarium also has an exterior seal pool that houses two rescued harbor seals. The aquarium is deemed to be in good condition. The harbor seal exhibit is nearing the end of its useful life. Design and construction plans and partial funding for improvement of the seal exhibit has been obtained. Efforts continue to reduce the scope of the project in order to proceed with available funds. By definition the aquarium is a heritage asset because it is primarily used to educate the public about the NMFS. However, the aquarium is classified as a multi-use heritage asset because it also is used for scientific research, which is part of NOAA's mission, and because two-thirds of the building it occupies is classified as General PP&E.

**OAR Great Lakes Environmental Research Laboratory (GLERL):** The Great Lakes Environmental Research Laboratory carries out research and provides scientific products, expertise, and services required for effective management and protection of Great Lakes and coastal ecosystems. Built in1900 and formerly a Coast Guard base at Muskegon, Michigan, the GLERL includes three buildings and a research vessel dockage. The function of the field station is to provide a base of operations for GLERL's primary research vessel, which is presently the R/V Shenehon, and to provide a focal point for GLERL's research on Lake Michigan.

#### Stewardship Land

Stewardship land represents land not acquired in connection with items of general PP&E, including land and land rights. During the period from 1781 through 1867, the United States acquired approximately 1.8 billion acres of public land; but in the course of expansion and development, public land was sold or deeded by the Federal government to the states and their local governments. Although NOAA does not manage vast amounts of stewardship land, the importance of these holdings to NOAA's mission warrants disclosure.

NOAA manages a number of national marine sanctuaries. The Federal Accounting Standards Advisory Board (FASAB) declared sanctuaries are reportable as stewardship land due to their resemblance to underwater national parks.

National Marine Sanctuaries (NMS): In 1972, in response to a growing awareness of the intrinsic environmental and cultural value of our coastal waters, Congress passed the Marine Protection, Research and Sanctuaries Act. The Act authorized the Secretary of Commerce to designate discrete areas as national marine sanctuaries. These protected waters provide a secure habitat for species close to extinction, and protect historically significant shipwrecks and prehistoric artifacts. Sanctuaries are also cherished recreational spots for diving and sport fishing, and support valuable commercial industries such as fishing and kelp harvesting. As of June 30, 2005, there are 13 designated national marine sanctuaries (which include near-shore coral reefs and open ocean) and 1 coral reef reserve. The number of square miles protected by the coral reef reserve increased by 131,800 square miles during FY 2003 and marine sanctuaries increased by 430 square miles during FY 2002, with additions in protected areas for the Northwestern Hawaiian Islands Coral Reef Ecosystem Reserve and the Hawaiian Island Humpback Whale and the Thunder Bay Sanctuaries.

The waters and resources of the NMS are generally in good condition though some specific resources (e.g. coral reefs, some commercial and recreational fisheries, and some benthic habitats) are threatened. Each individual site conducts research and monitoring activities to characterize existing resources and document changes.

Approximately 70 percent of all coral reefs located in U. S. waters surround the Northwestern Hawaiian Islands (NWHI). The NWHI Coral Reef Ecosystem Reserve is our nation's largest marine protected area, and was established by Executive Orders 132178 and 13196 (hereafter "Executive Order") to provide protection for the coral reef ecosystem and related marine resources of the NWHI. This designation was made under authority provided to the President under the National Marine Sanctuaries Amendments Act of 2000 (P.L. 106-513). NOAA is presently developing an operations plan for the Reserve and also undergoing the process to designate the Reserve as a NMS. The National Marine Sanctuary Program received over twenty-eight thousand comments on the Reserve Operations Plan (ROP) by the close of the sixty-day comment period. Final changes have been made to the ROP and it is now starting its final formal clearance process. The full formal agency approval can take several months. Once completed, the final ROP will be released to the public. The ROP serves as a guide for the management of the reserve during the sanctuary designation process. The designation process is expected to be completed in Spring 2006.

Information on the 13 designated sanctuaries and 1 coral reef reserve under NOAA's control as of June 30, 2005 are as follows:

National Marine Sanctuaries							
Name	Location	Protected Area Square Miles	Date Designated				
	25 miles off the coast		<b>g</b>				
Channel Island	of Santa Barbara, CA	1,658	September 1980				
	60 miles northwest of		•				
Cordell Bank	San Francisco, CA	526	May 1989				
	Southwest shore of						
	Tutuila Island,						
Fagatele Bay	American Samoa	.25	April 1986				
<u> </u>	Water surrounding the		1				
	archipelago formed by						
Florida Keys	the Florida Keys	3,674	November 1990				
	110 miles south of the						
	Texas-Louisiana						
Flower Garden Banks	Border	56	January 1992				
	17 miles east of						
Gray's Reef	Sapelo Island, Georgia	23	January 1981				
	Along the coast of						
	California and						
	northwest of San						
Gulf of the Farallones	Francisco	1,255	January 1981				
	Four Island area of						
Hawaiian Islands	Maui, Penguin Bank,						
Humpback Whale	and Kauai	1,370	November 1992				
	16 miles southeast of						
Monitor	Cape Hatteras, NC	1	January 1975				
M + D	Central California	5 220	0 1 1000				
Monterey Bay	Coast	5,328	September 1992				
O1	Washington's outer	2 210	11. 1004				
Olympic Coast	coast	3,310	July 1994				
Ctallyron and Davila	25 miles east of	0.40	Navan-1 1002				
Stellwagen Bank	Boston, MA	842	November 1992				
Thunder Bay	East of Alpena, MI	808	October 2000				
•	Last of Aipella, IVII	000	OCIOUCI 2000				
Northwestern Hawaiian Islands Coral Reef	Leeward Hawaiian		Dagambar 2000				
		121 000	December 2000 and				
Ecosystem Reserve	Islands	131,800	January 2001				

## Stewardship Investments

Stewardship investments are substantial investments made by the Federal government for the benefit of the nation. NOAA engages in activities which qualify as stewardship investments. When the related costs are incurred, they are treated as expenses in determining the net cost of operations. However, traditional financial measures and reporting do not provide for disclosure of the special responsibilities, activities, and benefits for which NOAA and the Federal government are accountable. Because NOAA is entrusted with and made accountable for resources which fund activities such as human capital, they are reported here to satisfy the stewardship objective and help readers assess the impact of NOAA's operations and investments. The investments represent expenses incurred for items such as education and training programs (human capital); Federally financed research and development; and Federally financed but not Federally owned property (non-Federal physical property). NOAA participates in all three types of stewardship investments, as detailed below.

#### Non-Federal Physical Property

Non-Federal physical property represents properties financed by NOAA but owned by state and local governments.

National Estuarine Research Reserves: Estuarine reserves are the areas where freshwater from rivers meet the ocean. These areas are known as bays, swamps, sloughs and sounds. They are all critical links in the Nation's coastal environment. These important coastal habitats are used as spawning grounds and nurseries for at least two-thirds of the nation's commercial fish and shellfish. In addition, estuaries filter much of the polluted runoff from rivers and streams that would otherwise contaminate oceans. Established by the Coastal Zone Management Act of 1972, the National Estuarine Research Reserves System (NERRS) is a network of Federal, state, and local partnerships, which work toward protecting and preserving the Nation's estuaries. The NERRS helps to fulfill NOAA's stewardship mission to sustain healthy coasts by improving the nations' understanding and stewardship of estuaries. Research funds are available from the Office of Ocean and Coastal Resource Management, Estuarine Reserve Division, on a competitive basis. Approximately \$1 million per year in research funds is allocated to support management-related research that will enhance scientific understanding of research environments, provide information needed by reserve managers and coastal zone decision makers, and improve public awareness of estuaries and estuarine management issues. The primary research objective is the study of natural and other induced changes in the ecology of estuarine and estuarine-like ecosystems that comprise the NERRS. There are currently 26 designated estuarine reserves encompassing 1,137,846 acres of estuarine waters, wetlands, and uplands. Most of the estuaries are operated and managed by the applicable state in cooperation with NOAA. Two additional reserves are in the process of development, St. Lawrence River Reserve in New York, and a proposed NERR in Texas.

Annual investment in Non-Federal Property related to NERRS:

(Property financed by NOAA, but owned by state and local government) this is for the acquisition of lands and development or construction of facilities, auxiliary structures, and public access routes for NERR sites.

FY 2005 Actual Investment (YTD Expenditures) - \$13,203,706.55

## **National Estuarine Research Reserves (NERRS)**

				Annual Investment (in thousands)					
		Size in	Year	FY	FY	FY	FY	FY	
Name	General Location	Acres	Established	2005*	2004*	2003	2002	2001	Primary Managing Entities
Ace Basin	45 miles south of Charleston, SC	134,710	1992	\$3,427	\$9	\$4,471	\$13,605	\$9,872	South Carolina
	55 miles southeast of Panama								
Apalachicola	City, FL	246,000	1979	0	0	0	0	205	Florida
	Jug Bay - P.G. and Anne Arundel								
	Counties, MD								
	Monie Bay - 20 miles outside								
	Salisbury, MD		1985						
Chesapeake Bay,	Otter Point Creek - Harford County		and						
Maryland	MD	4,820	1990	0	0	0	0	300	Maryland
Chesapeake Bay,	Chesapeake Bay, York River								State of Virginia and College of
Virginia	region	4,435	1991	300	138	438	0	105	William and Mary
	St. Jones River - Kent County,								
	DE <u>Blackbird Creek</u> - New Castle,								
Delaware	DE	4,930	1993	2,851	38	818	0	225	Delaware
	Between Santa Cruz and								
Elkhorn Slough	Monterey, CA	1,400	1979	0	0	130	650	660	California
Grand Bay	Jackson County, MS	18,400	1999	287	0	5,961	0	0	Mississippi
	Inland from the coast of New								
Great Bay	Hampshire and Maine border	5,280	1989		50	5,961	6,089		New Hampshire
				5,620				7,897	
Guana Tolomato	Flagler and St. John's Counties,								
Mantanzas	FL	55,000	1999	591	0	1,050	1,200	625	Florida
	Columbia, Dutchess, and								
Hudson River	Rockland Counties, NY	4,838	1982	0	0	0	650	88	New York
Jabos Bay	Southern coast of Puerto Rico	2,883	1981	58	0	100	300	400	Puerto Rico
Jacques									
Cousteau	East Coast, NJ	114,665	1998	0	0	85	428	492	New Jersey
Kachemak Bay	Homer, AK	365,000	1999	19	33	60	500	2,958	Alaska
Naragansett Bay	12 miles from Newport, RI	4,259	1980	10	75	468	490	555	Rhode Island

	National Estuarine Research Reserves (NERRS								
				Annual I	ivestment (i	in thousand	ds)		
Name	General Location	Size in Acres	Year Establishe d	FY 2005*	FY 2004*	FY 2003	FY 2002	FY 2001	Primary Managing Entities
North Inlet-Winyah									State of South Carolina and
Bay	Near Georgetown, SC	12,327	1992	0	0	0	27	2,503	University of South Carolina
North Carolina	Carrituck, New Hanover, Cateret, and Brunswick Counties, NC	10,000	1985 and 1991	0	0	0	0	0	North Carolina
Old Woman Creek	Erie County, OH	571	1980	0	0	0	0	270	Ohio
Padilla Bay	Mount Vernon, WA	11,000	1980	0	0	595	1000	1090	Washington State
Rookery Bay	Southwest coast of Florida- Collier County	110,000	1978	0	101	280	600	907	Florida
San Francisco Bay	Marin County & Solano County, CA	3,710	2003	0	0	0			San Francisco State University, California
Sapelo Island	Northeast of Darien, GA	6,110	1976	0	0	1,490	0	400	Georgia
South Slough	Cape Mendocino, CA to the Washington border	4,779	1974	24	11	330	285	364	Oregon
Tijuana River	International border between California and Mexico	2,513	1982	8	0	250	125	95	California
Waquoit Bay	Southeast coast of Cape Cod, MA	2,600	1988	8	20	1,490	768	229	Massachusetts
Weeks Bay	Baldwin County, 30 miles southeast of Mobile, AL	6,016	1986	0	0	0	250	1,150	Alabama
Wells	30 miles north of the New Hampshire border	1,600	1986**	0	0	0	547	167	Maine
Total		1,137,846	1.1 1 7	\$13,203	\$475	1 000 40	N.T. O.		

<sup>\*</sup>FY2005 and FY 2004 data is based on actual expenses incurred through June 30, 2005 as required by SFFAS No.8. Data for FY2000-2003 is reported as outlay estimates based on obligational data.

<sup>\*\*</sup>The Wells NERR Designation Year has been changed based upon review of the Wells Reserve Management Plan.

Coastal Zone Management Fund: The Coastal Zone Management Program (CZMP) is authorized by the Coastal Zone Management Act of 1972 and administered at the Federal level by the Coastal Programs Division (CPD) within the Office of Ocean and Coastal Resource Management (OCRM). Investment activities of the Coastal Zone Management Program include incidental expenses of land acquisition and low-cost construction on behalf of various state and local governments for the purpose of preservation or restoration of coastal resources and habitats. Activities include redevelopment of deteriorating and urbanized waterfronts and ports, and providing public access to beaches and coastal areas.

FY 2005 Actual Investment (YTD Expenditures) – Actual expenditures for Section 306A Activities cannot be determined at this time because NOAA has not completed the awards of FY 2005 State Grants. Additionally, only at fiscal year end, does NOAA collect from the States the actual amounts that were allocated to acquisitions versus other activities.

Coastal and Estuarine Land Conservation Program: The Department of Commerce, Justice, and State Appropriations Act of 2002 (Public Law 107\_77), directed the Secretary of Commerce to establish a Coastal and Estuarine Land Conservation Program "for the purpose of protecting important coastal and estuarine areas that have significant conservation, recreation, ecological, historical, or aesthetic values, or that are threatened by conversion from their natural or recreational state to other uses." Since FY 2002, matching grants were directed to 68 specific projects in coastal and estuarine areas, to be awarded to state, local and private nonprofit entities for land acquisition.

#### FY 2005 Actual Investment (YTD Expenditures) - \$13,779,333.00

#### **Human Capital**

Human capital investments are expenses included in net cost for education and training programs that are intended to increase or maintain national economic productive capacity and that produce outputs and outcomes that provide evidence of maintaining or increasing national productive capacity. Human capital excludes education and training expenses for Federal civilian and military personnel.

National Sea Grant: The National Sea Grant is a partnership between the Nation's universities and NOAA that began in 1966, when Congress passed the National Sea Grant College Program Act. Currently, the 30 Sea Grant Colleges are focused on making the United States the world leader in marine research and the sustainable development of marine resources. The National Sea Grant meets national needs by producing and making available a wealth of information on marine topics. The National Sea Grant funds high-quality research that is responsive to user needs by focusing the talents of University scientists, educators and outreach specialists on special projects such as solving marine and Great Lakes resource management, development, and conservation issues. The National Sea Grant transfers new knowledge to coastal businesses, marine industries, government, and the public. National Sea Grant research projects are funded on the basis of rigorous, highly competitive peer reviews. To date the program has supported approximately 13,700 graduate research assistants while they worked on cutting-edge marine and Great Lakes science.

The National Sea Grant College Program's investment in Human Capital Programs amounted to (in thousands) \$6,310, \$1,072, \$21,105, \$20,500 and \$19,536 for FY 2005, 2004, 2003, 2002 and 2001 respectively. The investment provides education for pre-college and teacher training, formal university programs, undergraduate and graduate student research, and Marine Policy and industrial fellowships and also provides extension education, such as informal education programs designed to transfer science-based information to industrial and environmental resource managers.

Performance Goal: Ecosystems

National Estuarine Research Reserve Program: The National Estuarine Research Reserves Program supports activities designed to increase public awareness of estuary issues, to provide information to improve management decisions in estuarine areas, and to train graduate students in estuarine science. The National Estuarine Research Reserve System's Graduate Research Fellowship (GRF) Program offers qualified master's and doctoral students the opportunity to address scientific questions of local, regional and national significance. The result is high-quality research focused on improving coastal management issues. All GRF projects must be conducted in a National Estuarine Research Reserve and enhance the scientific understanding of the reserve's ecosystem. These projects are based on the reserves' local needs, the reserve system's national priorities and the students' interest.

Strategic Plan Goal: Protect, restore, and manage the use of coastal and ocean resources through ecosystem-based management.

Objective: Protect, restore and manage the use of coastal, ocean and Great Lakes Resources.

Performance Goal: Ecosystems

Number of Graduate Research Fellowships Planned in FY2005 to date: 47 Number of Graduate Research Fellowships Awarded in FY2005 to date: 47

FY 2005 obligation of funds for Graduate Research Fellowships to date: \$888,633.00

## FY 2005 Actual Investment (YTD Expenditures) - \$646,693.37

National Research Council Research Associateship Program: The National Research Council, through its Associateship Programs office, awards outstanding scientists and engineers at recent postdoctoral and experienced senior levels with tenure as guest researchers at participating laboratories. The participants interact with NOAA scientists and learn new approaches, methods, and ideas, which increase their capacity as scientific researchers. The participants publish the results of their research in scientific journals and by other means, which make the results of their research available for the public.

Performance Goal: Ecosystems

FY 2005 Actual Investment (YTD Obligations) - \$-0-

**Educational Partnership Program:** This program's investment in Human Capital provides formal education and internship training opportunities for students attending minority serving institutions. These funds also support field research and conference attendance where students present their research findings.

Performance Goal: Ecosystems, Weather & Water Climate

## FY 2005 Actual Investment (YTD Obligations) - \$7,017,427.

The following summarizes NOAA's investment in human capital for FY 2005, FY 2004, FY 2003, FY 2002 and FY 2001:

	Annual Investment (in thousands)							
Program	FY 2005	FY 2004	FY 2003	FY 2002	FY 2001			
National Sea Grant	\$6,311	\$1,072	\$21,105	\$20,500	\$19,536			
National Estuarine Research								
Reserve Program	647	755	94	810	759			
National Research Council								
Research Associateship Program	-0-	1,640	1,499	364	2,993			
Educational Partnership Program	7,017							
Total Human Capital	\$13,975	\$3,467	\$22,698	\$21,674	\$23,288			
Investment			,		,			

Sea Grant universities contributed matching funds to NOAA's National Sea Grant programs, in thousands, \$10,963, \$11,477, \$11,131, \$8,462 and \$8,529 for FY 2003, FY 2002, FY 2001, FY 2000, and FY 1999, respectively. The National Sea Grant Program also received, in thousands, \$158, \$1,075, \$1,912, \$1,614, and \$1,481, in FY 2004, FY 2003, FY 2002, FY2001 and FY 2000, respectively, on a pass-through basis from other Federal agencies.

#### Research and Development

Research and development includes expenses incurred for programs intended to increase or maintain national economic productive capacity or yield other future benefits. NOAA conducts a substantial program of environmental research and development in support of its mission. Much of the research is performed to improve understanding of environmental phenomena and the ability to predict environmental phenomena as part of NOAA's operations. The scope of research in support of operations includes:

- Improvement of the prediction and warnings associated with the weather on time scales ranging from minutes to weeks;
- Improving the prediction of climate for periods of months to centuries; and
- Understanding relationships to better predict and manage renewable marine resources and coastal and ocean ecosystems.

NOAA also conducts research that is intended to provide a solid scientific basis for use by government decision makers in environmental policy. Examples of that work include determining the stratospheric ozone depleting potential of proposed substitutes for chlorofluorocarbons (CFC's) and identifying the causes of high episodes of rural ozone which significantly damage crops and forests.

Most of NOAA's research program is conducted in-house, while the majority of the systems development is performed under contract. NOAA also supports external research, the majority of which is undertaken by the National Sea Grant Program, the Cooperative Institutes of the Environmental Research Laboratories, the Climate and Global Change Program, and the Coastal Ocean Program.

The following narrative describes the major research and development programs of NOAA by line offices:

#### **National Ocean Service (NOS):**

As a national lead for coastal stewardship, NOS promotes a wide range of research activities to create the strong science foundation required to advance the sustainable use of our precious coastal systems. Understanding the coastal environment is enhanced through coastal ocean activities which support science and resource management programs.

NOS research and development programs focus on estuaries, coral reefs, national marine sanctuaries and national estuarine research, as well as coastal ecosystems. Through NOS' National Centers for Coastal Ocean Science (NCCOS), NOS conducts and supports research, monitoring, assessment, and technical assistance for managing coastal ecosystems and society's use of them. There are five NCCOS centers, each with research labs. Research activities range from understanding the causes and consequences of harmful algal blooms, predicting how climate change impacts our lives and determining the complex factors which affect fish habitats. To this end, our goal is to improve the scientific basis upon which costal managers make decisions.

#### **National Marine Fisheries Service (NMFS):**

The Manguson-Stevens Fishery Conservation and Management Act ("The Act") mandates strong action to conserve and manage fishery resources that contribute to the food supply, economy, and health of the Nation. The Act's provisions require NMFS to end overfishing, rebuild all overfished stocks, and conserve essential fish habitat through research and consultations on Federal and state actions that may adversely affect habitats.

NMFS has four major research priorities:

- Research to support fishery conservation and management. NMFS scientists are actively engaged in collaborative research to protect and enhance fishery resources. These research efforts include mapping, spatial analyses, geographic information systems (GISs), and fishery and ocean habitat modeling and characterization, as well as an evaluation of ecosystem approaches focusing on spatially-explicit models and further research into trophic relationships. Additionally, with the increasing need to seek new management approaches to enhance and conserve essential fish habitat (EFH), NMFS is conducting studies on adaptive/management techniques through the identification and use of potential areas of refugia (i.e., using areas closed to fishing activities for both recovery and research) and experiments on no-take and limited take zones and time-area closures. NMFS is also exploring the research potential of MPAs to facilitate important experiments in marine ecology and to support recommendations made by the NRC (NRC, 2001). Further, NMFS is evaluating the potential negative/ positive impact of fishing gear on habitat and fisheries production.
- Conservation Engineering Research. Conservation engineering research is intended to make fishing gear more efficient by decreasing fishing costs, bycatch mortality, and habitat destruction. It is also intended to improve the data provided by scientific surveys of fish populations. This area includes research on gear performance and fish behavior used in the development of selective fishing gear to reduce bycatch. Bycatch is responsible for the death of millions of juvenile finfish, including red drum, red snapper, weakfish, Spanish mackerel, and king mackerel. For example, prior to the implementation of bycatch reduction devices (BRDs), it has been estimated that between 15 to 50 million red snapper were annually taken and discarded in the offshore shrimp fishery in the Gulf of Mexico. The Food and Agriculture Organization (FAO) estimates that one-third of the world's 16 billion lbs. of bycatch comes from shrimp fishing. The most recent studies of bycatch estimate that the ratio of bycatch to shrimp landed is 4:1 in the Gulf of Mexico. The worldwide bycatch ratio for all fisheries is 0.35 lb to 1 lb. of target species.
- Research on the Fisheries. In its fifth edition, Our Living Oceans (NMFS, 1999) reported (from 1995-97 data) that of 160 U.S. Exclusive Economic Zone (EEZ) fisheries whose biological status could be assessed, 34 percent were classified as overutilized and 47 percent were fully utilized. Nationwide an additional 43 fishery stocks were characterized as having "unknown" status. New management measures, based on the Sustainable Fisheries Act (Public Law 104-297), have been implemented to halt the decline in stock levels in many of these fisheries. Causes typically cited for the declines include overfishing, deteriorating environmental conditions, loss of habitat, and changing oceanographic conditions. Research areas include social and economic research in fishery conservation and management issues, seafood safety research, and marine aquaculture.
- <u>Information Management Research.</u> The Act required the Secretary of Commerce to deliver a proposal to Congress that recommended an implementation strategy for the

creation of a "...standardized fishing vessel registration and fisheries information system." This report was completed and delivered to Congress in December 1998, and outlined an approach that integrated all fisheries information required under all applicable National Marine Fisheries Service (NMFS) statutory and regulatory requirements, including but not limited to MSFCMA, the Marine Mammal Protection Act, the Endangered Species Act, and the Atlantic Coastal Fisheries Cooperative Management Act (NMFS, 1998b). It also includes all data collected under state authority for those states willing to participate. This report was developed in consultation with the U.S. Coast Guard, the states, the regional FMCs, the interstate Marine Fisheries Commissions, other key governmental and non-governmental organizations, and interested stakeholders. Drafts of the proposal were published in the Federal Register for public comment.

The proposed fisheries information system included information from both commercial and recreational fisheries (the vessel registration component was recommended to apply to only commercial vessels). The current development of the fisheries information system is based on integrating data collection and data management systems required by NMFS, and linking them with existing state/Federal cooperative statistics programs around the country (i.e., the Atlantic Coast Cooperative Statistics Program (ACCSP); Gulf coast (GulfFIN); Pacific coast (Pacific RecFIN and PacFIN); Hawaii and Pacific islands (WestPacFin). Linking regional systems will identify and satisfy mutual information needs for states and the Federal government. In addition, gaps in information needs not yet met by these programs will be identified through consultation with industry and policy makers.

## Office of Oceanic and Atmospheric Research (OAR):

The Office of Oceanic and Atmospheric Research (OAR) — or "NOAA Research" — works in partnership with NOAA's National Weather Service, National Ocean Service, National Environmental Satellite Data Information Service and National Marine Fisheries Service as the research and development organization of the agency. It is through NOAA Research that our work results in better weather forecasts, longer warnings for natural disasters and an overall greater understanding of our oceans, climate and atmosphere.

#### OAR has three major research foci:

 <u>Climate Research.</u> NOAA's research laboratories, Office of Global Programs, and research partners conduct a wide range of research into complex climate systems and how they work. These scientists want to improve their ability to predict climate variation in both the shorter term, like cold spells or periods of drought, and over longer terms like centuries and beyond.

NOAA researchers will continue their consistent and uninterrupted monitoring of the Earth's atmosphere that can give us clues about long-term changes in the global climate. The data collected worldwide by NOAA researchers aids our understanding of, and ability to forecast changes in, complex climatic systems.

Using ever more powerful and sophisticated computer systems, NOAA researchers are working on numeric modeling of climate systems that will help improve the accuracy of climate forecasts.

• <u>Atmospheric Research.</u> People have been observing the weather for thousands of years. Yet little was understood about the complex atmospheric phenomena that create weather until fairly recently. Every day, NOAA scientists and their research partners are expanding the atmospheric body of knowledge, shedding new light on the processes that contribute to the world's weather and developing new tools for predicting it. No one can control the weather, but greater understanding of it can help save lives and property throughout the world.

NOAA Research organizations conduct basic and applied research on the upper and lower atmosphere as well as the space environment. Their findings form the basis for NOAA's contributions to major national and international environmental programs and agreements. For instance, the recent National Weather Service modernization is making use of NOAA research as evidenced by improvements in numerical modeling, information received from satellites and Doppler weather radars (NEXRAD) and sophisticated weather warning and display systems, all leading to improved severe weather forecasts and warnings.

Other research programs focus on observation and study of the chemical and physical processes of the atmosphere, detecting the effects of pollution on those processes and monitoring and forecasting the phenomena affecting the Sun-Earth environment.

Defying Benjamin Franklin's statement that everyone complains about the weather but no one does anything about it, NOAA scientists are revolutionizing our understanding of the restless ocean of air surrounding our planet.

Ocean and Coastal Research: NOAA Research, in cooperation with its research partners, explores and investigates ocean habitats and resources. We provide scientific results to help manage and understand fisheries, conserve and protect our coasts, and build a stronger economy through marine products and businesses, such as biotechnology and aquaculture. We also look for changes in the oceans due to natural and human activities.

"We all need and use the ocean. Whether we live in Maine or Montana, New York or Nevada, the ocean has a vital influence in everyday life. Not only does the ocean contribute an estimated 70% of our oxygen but it also removes a significant amount of carbon dioxide from our atmosphere. Two-thirds of the world's human inhabitants live within 40 miles of the ocean. Fish from the ocean provide the principal source of protein for one-sixth of the people on Earth. The rain that falls, the waters we drink and bathe in -- all are inextricably linked to the ocean." (from "Danger At Sea: Our Changing Ocean" by B. McKay et al.)

#### **National Weather Service (NWS):**

The NWS conducts applied research and development, building upon the more basic research conducted by NOAA laboratories and the academic community. Applied meteorological and hydrological research is integral to providing more timely and accurate weather, water, and climate services to the public.

<u>Meteorological Research:</u> The NWS conducts meteorological research to develop, test, evaluate, and improve numerical models and analysis/forecast techniques for weather and climate prediction including:

- Techniques for predicting mesoscale phenomena (e.g., heavy precipitation, tornadoes, and severe thunderstorms).
- Models to improve hurricane tracking, hurricane probability estimates, and tropical analyses.
- Storm surge models to assist in developing hurricane evacuation plans for additional coastal basins.
- Techniques to improve prediction of seasonal to interannual climate variability and their impacts on weather variability

<u>Hydrologic Research:</u> The NWS develops, implements and operationally supports improved hydrologic, hydraulic and hydrometeorological models and manages hydrologic data and enhanced quality control procedure to support national flood and water resources forecasting. Research encompasses the following areas:

- Improvements to the Ensemble Streamflow Prediction (ESP) system and its complimentary models in the NWS River Forecasting System. Research, development and implementation of improved ESP procedures which improve forecast accuracy and quantify uncertainty at all time scales.
- Specialized flood and flash flood forecasting procedures using linked hydrologic, hydraulic and meteorological models. Major research areas include developing distributed hydrologic models that use high resolution precipitation data from the NWS radar network, improvement of cold region processes in watershed models, and assimilation of data to improve initial conditions. Highly specialized hydraulic models for routing river flows will also provide information for generating maps of inundated areas.
- Development of improved multi-sensor precipitation estimates for input estimates for input into operational hydrologic and atmospheric models. Radar, rain gauge and satellite rainfall estimates are merged to produce optimum rainfall analyses.
- Development of verification methods to assess the added-value of new science and technology to the customer.

<u>Space Weather Research:</u> Applied research improves the specification and forecast of conditions in the space environment by developing and implementing models and indices, as well as by obtaining and processing new observations.

- Developing of the first dynamic, global ionospheric model to use ensemble Kalman filter techniques to assimilate data every 15 minutes. Disparate data from widely dispersed sources will enable the model output to be useful to radio-communicators and GPS and LORAN users.
- Developing of models to characterize and predict geomagnetic storm intensity development, spatially and temporally.

Support for Collaborative Research with the Academic Community and Other Partners: The Collaborative Science, Technology, and Applied Research (CSTAR) program was established to bring NWS-supported collaborative activities with the academic community into a structured program and to create a cost-effective transition from basic and applied research to operations and services. The CSTAR Program issues a yearly request for proposals through which colleges and universities compete for 1-3 years of research funding. CSTAR supports short-term research activities with colleges and universities through the NWS/Cooperative Program for Operational Meteorology, Education, and Training (COMET) Outreach Program. The NWS also funds specific applied research grants and cooperative agreements directly in support of hydrology and meteorology research needs.

#### National Environmental Satellite Data and Information Service (NESDIS):

NESDIS, through its Office of Research and Applications (ORA) conducts atmospheric, climatological, and oceanic research into the use of satellite data for monitoring environmental characteristics and their change. It also provides guidance for the development and evolution of spacecraft and sensors to meet future needs.

NESIDS three principal areas of focus in research and development are:

<u>Atmospheric Research.</u> NESDIS develops and improves methods for the remote sensing of satellite data, makes assessments of the accuracy of satellite observations and derived products, and transfers technology to operations.

<u>Climate Research.</u> NESDIS develops products and applications of satellite operations for weather and climate monitoring and prediction. It also develops calibration procedures for all NOAA satellite sensors and guides the development of new satellite instruments.

Oceanic Research. NESDIS provides the primary research and development support for oceanic remote sensing within NOAA. Scientific programs include sea-surface temperature algorithms and analyses, ocean color, marine bio-optics, sea-surface wind measurements, satellite altimetry, oceanic rainfall measurements, search and rescue

satellite applications, and coastal monitoring tools in such programs as Coast Watch and coral bleaching research.

### **NOAA Marine and Aviation Operations (NMAO):**

NMAO operates a wide variety of specialized aircraft and ships to complete NOAA's environmental and scientific missions.

NOAA's Aircraft Operations Center (AOC), located at the MacDill Air Force Base in Tampa, Florida, is home to NOAA's fleet of aircraft. These fixed-wing and rotary aircraft operate in some of the world's most remote and demanding flight regimes--over open ocean, mountains, coastal wetlands, Arctic pack ice, and in and around hurricanes and other severe weather--with an exemplary safety record. There are no comparable aircraft in the commercial fleet to support NOAA's atmospheric and hurricane surveillance/research programs. AOC provides unique specialized platforms to NOAA's scientists. The hard-working versatile aircraft collect the environmental and geographic data essential to NOAA hurricane and other weather and atmospheric research; conduct aerial surveys for hydrologic research to help predict flooding potential from snow melt, and provide support to NOAA's fishery research and marine mammal assessment programs.

NOAA's ship fleet provides oceanographic and atmospheric research and fisheries research vessels to support NOAA's strategic plan elements and mission. The vessels are located in various locations around the United States. The ships are managed by the Marine Operations Center, which has offices in Norfolk, Virginia and Seattle, Washington. Logistic support for these vessels is provided by the Marine Operations Center offices or, for vessels in Woods Hole, Massachusetts; Charleston, South Carolina; Pascagoula, Mississippi; San Diego, California; and Honolulu, Hawaii; by Port Captains located in those ports.

#### Research and Development by Major Program

NOAA's programs for research and development include: Environmental and Climate, Fisheries, Fleet Maintenance and Aircraft Services, and Weather.

**Environmental and Climate:** The Office of Oceanic and Atmospheric Research (OAR) is NOAA's primary research and development office. OAR conducts research in three major areas: Climate Research, Weather and Air Quality Research, and Ocean, Coastal and Great Lakes Research.

**Fisheries:** NOAA's National Marine Fisheries Service is responsible for the collection and analysis of information on the status of fishery resources and protected species, and for conducting programs that develop fisheries for economic growth.

Fleet Maintenance and Aircraft Services: These expenditures support infrastructure.

**Weather:** NOAA is also funding improvements to the Next Generation Weather Radar (NEXRAD) program, specifically to add dual polarization and other improved signal processing techniques.

The following summarizes NOAA's investment in research and development by major program for FY 2005, FY 2004, FY 2003, FY 2002 and FY 2001:

Annual Investment (in thousands)									
Program	FY2005	FY2004*	FY 2003	FY 2002	FY 2001				
Environmental and Climate	215,379	\$317,857	\$351,472	\$289,885	\$266,174				
Fisheries*	60,229	70,654	156,383	121,745	125,755				
Fleet Maintenance and Aircraft Service	35,189	51,702	90,382	19,254	18,023				
Weather Service	10,237	17,622	20,377	11,000	11,100				
Other	78,968	116,483	83,321	132,353	112,922				
Total R&D Investment	400,002	\$574,318	\$701,935	\$574,237	\$533,974				

The following reports are NOAA's investment in research and development segregated by the components of basic research, applied research, and development costs for FY 2005, FY 2004, FY 2003, FY 2002 and FY 2001:

Annual Investment (in thousands)										
Research and Development	FY2005	FY2004	FY 2003	FY 2002	FY 2001					
Basic Research	0	0	\$12,529	\$8,840	\$3,300					
Applied Research	372,809	546,684	668,327	537,109	507,692					
Development	27,193	27,634	21,079	28,288	22,982					
Total Research and Development	400,002	\$574,318	\$701,935	\$574,237	\$533,974					

<sup>\*</sup>See Footnote on last page

# Research and Development by Performance Goals:

Performance Goal: Weather & Water - Improve accuracy and timeless of weather and water information.

	Research	Develop	Total R&D
National Ocean Service	291	214	505
National Marine Fisheries Service	0	0	0
Office of Oceanic and Atmospheric Research	52,890	1,309	54,199
National Weather Service	321	9,916	10,237
National Satellite Data & Information Service	16,573	0	16,573
NOAA Marine and Aviation Operations	4,946	7,321	12,267
TOTAL PERFORMANCE GOAL 2	75,021	18,760	93,781

Performance Goal: Climate – Increase understanding of climate variability and change.

	Research	Develop	Total R&D
National Ocean Service	0	0	0
National Marine Fisheries Service	0	0	0
Office of Oceanic and Atmospheric Research	97,544	113	97,657
National Weather Service	0	0	0
National Satellite Data & Information Service	0	0	0
NOAA Marine and Aviation Operations	6,884	72	6,956
TOTAL PERFORMANCE GOAL 1	104,428	185	104,613
		·	

Performance Goal: Ecosystems – Improve protection, restoration, and management use of coastal and ocean resources through eco-system-based management.

	Research	Develop	Total R&D
National Ocean Service	50,465	3,878	54,343
National Marine Fisheries Service	59,092	1,137	60,229
Office of Oceanic and Atmospheric Research	63,511	12	63,523
National Weather Service	0	0	0
National Satellite Data & Information Service	553	2	555
NOAA Marine and Aviation Operations	12,254	3,219	15,473

TOTAL PERFORMANCE GOAL 4	185,875	8,248	194,123

Performance Goal: Commerce & Transportation – Support the Nation's commerce with information for safe, efficient, and environmentally sound transportation.

	Research	Develop	Total R&D
National Ocean Service	6,992	0	6,992
National Marine Fisheries Service	0	0	0
Office of Oceanic and Atmospheric Research	0	0	0
National Weather Service	0	0	0
National Satellite Data & Information Service	0	0	0
NOAA Marine and Aviation Operations	493	0	493
TOTAL PERFORMANCE GOAL 3	7,485	0	7,485

# Total NOAA

	Research	Develop	Total R&D
National Ocean Service	57,748	4,092	61,840
National Marine Fisheries Service	59,092	1,137	60,229
Office of Oceanic and Atmospheric Research	213,945	1,434	215,379
National Weather Service	321	9,916	10,237
National Satellite Data & Information Service	17,126	2	17,128
NOAA Marine and Aviation Operations	24,577	10,612	35,189
TOTAL ALL PERFORMANCE GOALS	372,809	27,193	400,002

# **Annual Investment by Program and Research and Development Type**

	OAR - Environmental and Climate							Fisheries			Fleet Maintenance and Aircraft Service				
	FY2001	FY2002	FY2003	FY2004	FY2005	FY2001	FY2002	FY2003	FY2004	FY2005	FY2001	FY2002	FY2003	FY2004	FY2005
Basic															
Research			12,529	0	0			0	0	0			0	0	0
Applied															
Research			337,266	315,515	<mark>213,945</mark>			155,610	67,435	59,092			90,382	35,688	<mark>24,577</mark>
Development			1,677	2,342	<mark>1,434</mark>			773	3,219	1,137			0	16,014	10,612
Total			351,472	317,857	<mark>215,379</mark>			156,383	70,654	60,229			90,382	51,702	<mark>35,189</mark>

	Weather Service						Other -	- NOS & 1	NEDIS		Totals				
	FY2001	FY2002	FY2003	FY2004	FY2005	FY2001	FY2002	FY2003	FY2004	FY2005	FY2001	FY2002	FY2003	FY2004	FY2005
Basic															
Research			0	0	0			0	0	0			12,529	0	0
Applied															
Research			5,209	14,382	321			79,860	113,664	<mark>74,874</mark>			668,327	546,684	372,809
Development			15,168	3,240	9,916			3,461	2,819	<mark>4,094</mark>			21,079	27,634	27,193
Total			20,377	17,622	10,237			83,321	116,483	<mark>78,96</mark> 8			701,935	574,318	400,002

\* National Oceanic and Atmospheric Administration FY 2004 Required Supplementary Stewardship Information Change in Basis for R&D Investment Reporting for FY 2004

In FY 2004, NOAA made a change to the basis upon which it reports Research and Development investments for the Required Supplementary Stewardship Information (RSSI). In the past, the NOAA Budget Office collected data for Research and Development by issuing a data call to the NOAA Line Offices requesting data on Research and Development Obligations. In FY 2003, the Budget Office issued this data call to the lines at year end. Those estimates were then used to estimate outlays using outlay tables used in the budget formulation process.

For FY 2004, NOAA Budget and the NOAA Finance Office determined that NOAA would improve its reporting in the RSSI section of the financial statements by linking Research and Development investments to the financial systems (CAMS). For FY 2004 and for future years we have done this.

To implement this, the NOAA Budget Office tasked NOAA's Line Offices with updating the Research and Development codes in CAMS to conform to the Research and Development activities they conduct. The NOAA Budget Office then updated the project fields in CAMS based on the input that the Line Offices provided. This was done for all projects active in FY 2004.

For FY 2004, then, the Research and Development data reported in the RSSI section are linked to data in the CAMS system. These data were extracted from the CAMS system on the basis of expense (paid and unpaid) and, with a few adjustments for incorrect codes reported by the National Marine Fisheries Service (documentation can be provided on request), were provided to the NOAA Finance Office for inclusion in the statements. Because of this change, data for FY 2004 are not directly comparable to those from prior years. From this point forward, however, data will be reported on this basis.